

US EPA RECORDS CENTER REGION 5



417979

AECOM

Quarterly Report October Through December 2010 Greenbrook Elementary School Investigation Area

Submitted to:

EPA Region 5
77 West Jackson Boulevard
Chicago, IL 60604-3590

Prepared for:

BFI Waste Systems of North America, LLC
26W580 Schick Road
Hanover Park, IL 60133

Prepared by:

AECOM
4135 Technology Parkway
Sheboygan, WI 53083

January 2011

AECOM Project No. 60151902

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1.0 INTRODUCTION

1.1 Purpose

This quarterly monitoring report documents site activities and monitoring data for October through December 2010 near Greenbrook Elementary School, Hanover Park, IL ("School Area"). This monitoring period began after the monitoring data previously reported in the Soil Equilibrium Test Evaluation Report for the Greenbrook School Investigation Area submitted to Illinois Protection Agency and United States Environmental Protection Agency on October 29, 2010. The monitoring data presented in this report includes gas probe monitoring data, a map, and a summary table demonstrating the current extent of combustible soil gas. In addition to monitoring data, this report includes documentation of temporary gas probe abandonments approved by USEPA in October 2010 for the School Area, a discussion of the current operations of the gas extraction system, and the monitoring program for the probes and wells that is currently implemented.

1.2 Site Location

The School Area encompasses the area directly east of the West Branch of the DuPage River to the eastern extent of the School property and from the southern portion of Heritage Park to the northeast corner of the permitted boundary of the Mallard Lake Landfill property. The School Area is located on partially on Mallard Lake Forest Preserve property owned by the Forest Preserve District of DuPage County ("FPDDC") and on property owned by Keeneyville Elementary School District 20.

1.3 Corrective Action Status

Remedial corrective actions in the School Area are being conducted simultaneously with off-site remedial actions adjacent to the MLL. The following summarizes the major correspondence since the beginning of October:

October 12, 2010 – AECOM, on behalf of BFI and the FPDDC, submits temporary gas probe abandonment request for selected School Area probes.

October 27, 2010 – USEPA approves 19 of 20 proposed gas monitoring probe abandonment locations for the School Area.

October 29, 2010 – AECOM, on behalf of BFI and the FPDDC submits the Soil Equilibrium Test Evaluation Report for the Greenbrook School Investigation Area.

November 17, 2010 – AECOM abandons the 19 gas monitoring probes in the School Area as approved by USEPA.

2.0 MONITORING

Site monitoring has progressed from start-up monitoring to monitoring that matches the current changes in extraction and methane concentrations. This includes changes in the number of monitoring probes as a result of USEPA-approved probe abandonments. The approvals and abandonment data probes abandoned in November 2010 are included in Appendix A. Monitoring conducted as part of the soil equilibrium test was initiated on July 19, 2010, as described in the Soil Equilibrium Test Evaluation Report for the Greenbrook School Area, and continues to present as described in this section. These monitoring activities have been coordinated with the USEPA and the IEPA staff to continue the corrective action and move the project toward final monitoring status.

The current monitoring probes in the School Area are listed in Table 1 and shown on Figure 1. This monitoring probe network is monitored every 10 days for methane, carbon dioxide, oxygen, balance gas and static pressure. Soil gas monitoring is performed by attaching a Landtec GEM500 or Landtec GEM2000 ("GEM") portable landfill gas meter to the probe and initially measuring static pressure in the probe. The GEM is then run for 3 minutes or shorter if the methane concentration stabilizes. Following the GEM monitoring the probe or well is opened for a water level measurement, as needed.

3.0 CORRECTIVE ACTION MEASURES UPDATE

Pursuant to USEPA approval of the soil equilibrium test, mobile oxidizer extraction and remedial operations at LDE-13 were suspended at the School Area on July 14, 2010. The suspension of remedial activities continues to be in effect pending review of the data evaluation presented in the Soil Equilibrium Test Evaluation Report for the Greenbrook School Investigation Area and additional quarterly monitoring data presented in this report.

4.0 QUARTERLY DATA EVALUATION

This monitoring period (October through December 2010) provides additional School Area monitoring probe network data to evaluate soil conditions without active extraction in the School Area.

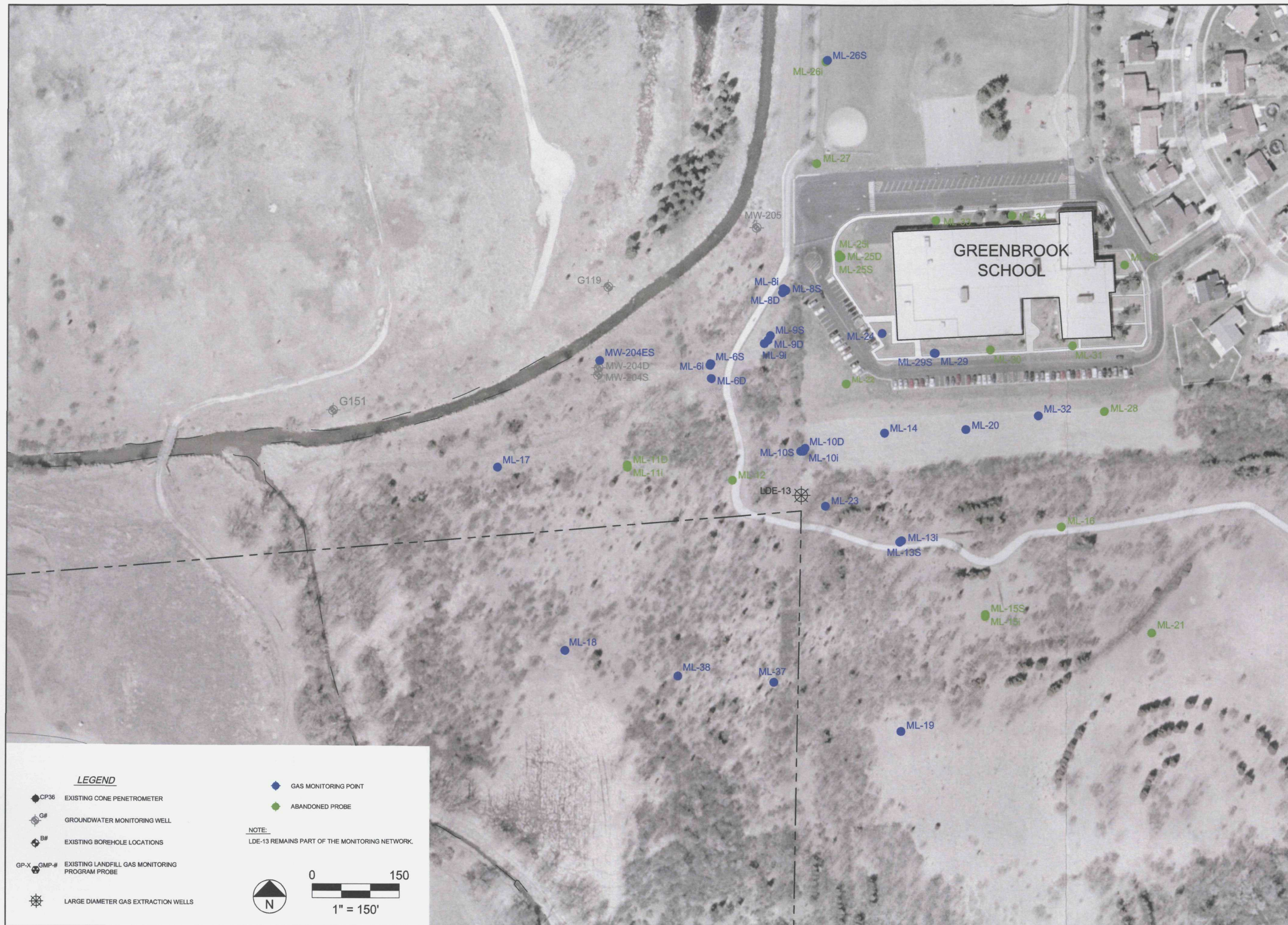
Gas monitoring probe data from the School Area generally indicate consistent methane concentrations and static pressures during this reporting period and historically. Monitoring data at 19 of the 28 probes which comprise the current monitoring network have not measured methane above 0.2 percent by volume over this reporting period. Most of these 19 probes only had one reading above zero which occurred on November 29, 2010.

The remaining 9 of 28 probes comprising the current monitoring network have indicated methane concentrations above 0.2 percent by volume. Table 2 summarizes the methane concentrations for probes and wells with methane detections in the School Area. Graphical analyses for these probes are presented in Appendix B. Individual gas monitoring probe and well readings are provided in Appendix C.

Monitoring conducted as part of the soil equilibrium test (described in Section 2) in the School Area will continue pending USEPA and IEPA review of past reports.

Figures

X:\PROJECTS\2007\04\B05\Proposed_Abandonment\dwg\FIGURE-1_SchoolArea_18.mxd 11/18/2011 9:51:36 AM: CURTIN, KEVIN-L: STB:ab



AECOM

1035 Kepler Drive
Green Bay, WI 54311
920.468.1978

www.aecom.com

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GAS MONITORING PROBE NETWORK - NOVEMBER 2010
SCHOOL AREA

MALLARD LAKE LANDFILL
DuPAGE COUNTY
HANOVER PARK, ILLINOIS

Issued

Rev	Date	Description

Designed:
Drawn: KJC 11/22/2010
Checked: JDM 11/22/2010
Approved: MGR 11/22/2010

PROJECT NUMBER
60151902

SHEET REFERENCE NUMBER

Tables

Table 1Quarterly Report - October Through December 2010
Greenbrook Elementary School Investigation Area**School Area Monitoring Network
October - December 2010
Mallard Lake Landfill, Hanover Park, Illinois**

Probes
ML-06D
ML-06I
ML-06S
ML-08D
ML-08I
ML-08S
ML-09D
ML-09I
ML-09S
ML-10D
ML-10I
ML-10S
ML-13I
ML-13S
ML-14
ML-17
ML-18
ML-19
ML-20
ML-23
ML-24S
ML-26S
ML-29
ML-29S
ML-32S
ML-37
ML-38
MW-204ES
Wells
LDE-13

Table 2Quarterly Report - October Through December 2010
Greenbrook Elementary School Investigation Area**School Area Probes and Wells Methane Concentration Summary**
October - December 2010
Mallard Lake Landfill, Hanover Park, Illinois

Probes	Comments
ML-08D	One anomalous methane detection on 11/1/10 coincident with pressure increase; all other methane concentrations <0.1%
ML-08I	No air flow; methane concentrations consistent with historical concentrations
ML-10I	Recent higher methane concentrations beginning 12/17/10; coincident with slightly higher static pressures.
ML-13I	No air flow; methane concentrations consistent with historical concentrations
ML-14	One isolated measurement of 1.1% methane on 12/29/10; all other methane concentration <0.1%.
ML-20	No air flow; methane concentrations consistent with historical concentrations.
ML-26S	One isolated measurement of 1.8% methane on 10/11/10; methane concentrations since then are zero.
ML-29	Methane concentrations consistent with historical concentrations.
MW-204ES	No methane until 10/11/10; recent increase in methane concentrations coincident with drop in groundwater levels
Wells	
LDE-13	Methane concentrations consistent with historical concentrations

Appendices

Appendix A
Probe Abandonments



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

October 27, 2010

REPLY TO THE ATTENTION OF:

Jim Hitzeroth
Republic Services, Inc.
26 W 580 Schick Rd.
Hanover Park, IL 60133

**Re: U.S. EPA Partial Approval of Abandonment Requests for Gas Monitoring
Probes in West, South and Greenbrook School Investigation Areas, Mallard
Lake Landfill, Hanover Park, IL –
US EPA Docket No. RCRA 7003-5-08-001**

Dear Mr. Hitzeroth:

The United States Environmental Protection Agency (EPA) has completed its review of the "Abandonment Request – Temporary Gas Monitoring Probe Network West and South Investigation Areas," and "Abandonment Request – Temporary Gas Monitoring Probe Networks Greenbrook School Investigation Area," prepared by AECOM, Inc., submitted on October 12, 2010.

EPA approves the abandonment of the temporary gas probes outlined in the requests except for probes B-7, CP-5, CP-13 and ML-32. Given the location of these probes and/or historic gas detections, these probes will remain in the monitoring program for a longer period. EPA requests that upon completion of the abandonment process, a set of updated gas monitoring network maps be submitted to EPA and IEPA within 10 days.

Thank you very much for your cooperation. If you have any questions, please feel free to contact me at (312) 886-6864.

Sincerely,

A handwritten signature in black ink, appearing to read "Jacob Hassan", is written over a horizontal line.

Jacob Hassan
Environmental Scientist

cc: Eric Ballenger, BFI
Mike Ruetten, AECOM

Paul Ruesch, USEPA, SFD, Chicago, IL
Tom Krueger, USEPA, ORC, Chicago, IL
Richard Wagner, USEPA, ORC, Chicago, IL
Joy Hinz, DuPage County
Joe Benedict, Forest Preserve District of DuPage County
Tom Rivera, IEPA, Des Plaines, IL

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF ENVIRONMENTAL HEALTH
525 W. JEFFERSON ST.
SPRINGFIELD, IL 62761

WATER WELL SEALING FORM

PDF FILLABLE/SAVABLE

RETURN ALL COPIES TO IDPH OR
LOCAL HEALTH DEPARTMENT

This form shall be submitted to this Department or the local health department not more than 30 days after a water well, boring or monitoring well is sealed. Such wells are to be sealed not more than 30 days after they are abandoned in accordance with the sealing requirements in the Illinois Water Well Construction Code. THE LOCAL HEALTH DEPARTMENT OR REGIONAL PUBLIC HEALTH DEPARTMENT MUST BE NOTIFIED AT LEAST 48 HOURS PRIOR TO SEALING.

1. Ownership (Name of Controlling Party)

BFI Waste Systems of North America, LLC

2. Well Location:

Well Site Address

26W580 Schick Road

City

Hanover Park

Zip

60133

Lot #

Land I.D.#

ML-11

County

DuPage

Township

40N

Range

10E

Section

7

SW

Quarter of the

SE

Quarter of the

NW

Quarter

GPS: North
Degrees

Minutes

Seconds

West
Degrees

Minutes

Seconds

Report decimal minutes to minutes and seconds by multiplying the decimal part of the minutes by 60, e.g. latitude 38 degrees 46.07 minutes N would be latitude 38 degrees 46 minutes 4.2 seconds ($0.07 \times 60 = 4.2$) N. Report GPS coordinates to the nearest 0.1 second.

3. Year Drilled

2008

4. Drilling Permit Number (and date, if known)

NA

5. Type of Well

Drilled

6. Total Depth (ft.)

37.75

Diameter (in.)

1

7. Formation clear of obstruction

Yes

8. Details of Plugging (bentonite, neat cement or other materials)

Filled with

3/8" Bentonite Pellets

From (ft.)

37.75

to (ft.)

0.7

Kind of plug

Topsoil

From (ft.)

0.7

to (ft.)

0

Filled with

From (ft.)

to (ft.)

Kind of plug

From (ft.)

to (ft.)

Filled with

From (ft.)

to (ft.)

Kind of plug

From (ft.)

to (ft.)

9. CASING RECORD Upper 2 feet of casing removed

Yes

10. Date well was sealed

Nov 17, 2010

11. Licensed water well driller or other person approved by the Department performing well sealing

Name

Jeff Maletzke

Complete License Number

NA

Address

255 Corporate Woods Pkwy.

City

Vernon Hills

State

Illinois

Zip Code

60061

This state agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act-0863. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center. IL 482-0631- Revised 5/09

Questions regarding the completion of this form should be directed to the local health department or the Illinois Department of Public Health 217-782-5830, TTY (for hearing impaired only) 800-547-0466.

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1. Ownership (Name of Controlling Party)		BFI Waste Systems of North America, LLC													
2. Well Location:		Well Site Address	26W580 Schick Road	City	Hanover Park	Zip	60133								
Lot #		Land I.D.#	ML-11D	County	DuPage	Township	40N								
Range	10E	Section	7	Quarter of the	SW	Quarter of the	NW	Quarter							
GPS: North		Degrees		Minutes		Seconds		West	Degrees		Minutes		Seconds		
Report decimal minutes to minutes and seconds by multiplying the decimal part of the minutes by 60, e.g. latitude 38 degrees 46.07 minutes N would be latitude 38 degrees 46 minutes 4.2 seconds (0.07 x 60 = 4.2) N. Report GPS coordinates to the nearest 0.1 second.															
3. Year Drilled		2008		4. Drilling Permit Number (and date, if known)		NA									
5. Type of Well		Drilled		6. Total Depth (ft.)		60.2		Diameter (in.)		1					
7. Formation clear of obstruction		Yes													
8. Details of Plugging (bentonite, neat cement or other materials)															
Filled with		3/8" Bentonite Pellets		From (ft.)		60.2		to (ft.)		0.7					
Kind of plug		Topsoil		From (ft.)		0.7		to (ft.)		0					
Filled with				From (ft.)				to (ft.)							
Kind of plug				From (ft.)				to (ft.)							
Filled with				From (ft.)				to (ft.)							
Kind of plug				From (ft.)				to (ft.)							
9. CASING RECORD		Upper 2 feet of casing removed		Yes		10. Date well was sealed		Nov 17, 2010							
11. Licensed water well driller or other person approved by the Department performing well sealing															
Name		Jeff Maletzke		Complete License Number		NA									
Address		255 Corporate Woods Pkwy.		City		Vernon Hills		State		Illinois		Zip Code		60061	

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1. Ownership (Name of Controlling Party)

BFI Waste Systems of North America, LLC

2. Well Location: Well Site Address 26W580 Schick Road City Hanover Park Zip 60133

Lot # Land I.D.# ML-12 County DuPage Township 40N

Range 10E Section 7 SW Quarter of the SE Quarter of the NW Quarter

GPS: North Degrees Minutes Seconds West Degrees Minutes Seconds

Report decimal minutes to minutes and seconds by multiplying the decimal part of the minutes by 60, e.g. latitude 38 degrees 46.07 minutes N would be latitude 38 degrees 46 minutes 4.2 seconds (0.07 x 60 = 4.2) N. Report GPS coordinates to the nearest 0.1 second.

3. Year Drilled 2008

4. Drilling Permit Number (and date, if known) NA

5. Type of Well Drilled

6. Total Depth (ft.) 36.5

Diameter (in.) 1

7. Formation clear of obstruction Yes

8. Details of Plugging (bentonite, neat cement or other materials)

Filled with 3/8" Bentonite Pellets From (ft.) 36.5 to (ft.) 0.7

Kind of plug Topsoil From (ft.) 0.7 to (ft.) 0

Filled with From (ft.) to (ft.)

Kind of plug From (ft.) to (ft.)

Filled with From (ft.) to (ft.)

Kind of plug From (ft.) to (ft.)

9. CASING RECORD Upper 2 feet of casing removed Yes

10. Date well was sealed Nov 17, 2010

11. Licensed water well driller or other person approved by the Department performing well sealing

Name Mark Magee

Complete License Number NA

Address 255 Corporate Woods Pkwy. City Vernon Hills State Illinois Zip Code 60061

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1. Ownership (Name of Controlling Party)		BFI Waste Systems of North America, LLC	
2. Well Location: Well Site Address		26W580 Schick Road	City Hanover Park Zip 60133
Lot #	Land I.D.#	ML-151	County DuPage Township 40N
Range 10E	Section 7	NW	Quarter of the NW Quarter of the SW Quarter
GPS: North Degrees Minutes Seconds West Degrees Minutes Seconds			
Report decimal minutes to minutes and seconds by multiplying the decimal part of the minutes by 60, e.g. latitude 38 degrees 46.07 minutes N would be latitude 38 degrees 46 minutes 4.2 seconds (0.07 x 60 = 4.2) N. Report GPS coordinates to the nearest 0.1 second.			
3. Year Drilled	2008	4. Drilling Permit Number (and date, if known)	NA
5. Type of Well	Drilled	6. Total Depth (ft.)	43.5 Diameter (in.) 0.75
7. Formation clear of obstruction	Yes		
8. Details of Plugging (bentonite, neat cement or other materials)			
Filled with	3/8" Bentonite Pellets	From (ft.)	43.5 to (ft.) 0.7
Kind of plug	Topsoil	From (ft.)	0.7 to (ft.) 0
Filled with		From (ft.)	
Kind of plug		From (ft.)	
Filled with		From (ft.)	
Kind of plug		From (ft.)	
9. CASING RECORD Upper 2 feet of casing removed	Yes	10. Date well was sealed	Nov 17, 2010
11. Licensed water well driller or other person approved by the Department performing well sealing			
Name	Mark Magee	Complete License Number	NA
Address	255 Corporate Woods Pkwy.	City	Vernon Hills State Illinois Zip Code 60061

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1. Ownership (Name of Controlling Party)		BFI Waste Systems of North America, LLC													
2. Well Location:		Well Site Address	26W580 Schick Road	City	Hanover Park	Zip	60133								
Lot #		Land I.D.#	ML-15S	County	DuPage	Township	40N								
Range	10E	Section	7	NW	Quarter of the	NW	Quarter of the SW Quarter								
GPS: North Degrees			Minutes		Seconds		West Degrees		Minutes		Seconds				
Report decimal minutes to minutes and seconds by multiplying the decimal part of the minutes by 60, e.g. latitude 38 degrees 46.07 minutes N would be latitude 38 degrees 46 minutes 4.2 seconds (0.07 x 60 = 4.2) N. Report GPS coordinates to the nearest 0.1 second.															
3. Year Drilled		2008		4. Drilling Permit Number (and date, if known)		NA									
5. Type of Well		Drilled		6. Total Depth (ft.)		24.3		Diameter (in.)		0.75					
7. Formation clear of obstruction		Yes													
8. Detains of Plugging (bentonite, neat cement or other materials)															
Filled with		3/8" Bentonite Pellets		From (ft.)		24.3		to (ft.)		0.7					
Kind of plug		Topsoil		From (ft.)		0.7		to (ft.)		0					
Filled with				From (ft.)				to (ft.)							
Kind of plug				From (ft.)				to (ft.)							
Filled with				From (ft.)				to (ft.)							
Kind of plug				From (ft.)				to (ft.)							
9. CASING RECORD		Upper 2 feet of casing removed		Yes		10. Date well was sealed		Nov 17, 2010							
11. Licensed water well driller or other person approved by the Department performing well sealing															
Name		Mark Magee		Complete License Number		NA									
Address		255 Corporate Woods Pkwy.		City		Vernon Hills		State		Illinois		Zip Code		60061	

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1. Ownership (Name of Controlling Party)		BFI Waste Systems of North America, LLC							
2. Well Location:		Well Site Address	26W580 Schick Road	City	Hanover Park	Zip	60133		
Lot #		Land I.D.#	ML-16	County	DuPage	Township	40N		
Range	10E	Section	7	NW	Quarter of the	NW	Quarter of the SW Quarter		
GPS: North		Minutes		Seconds		West	Minutes	Seconds	
Degrees						Degrees			
Report decimal minutes to minutes and seconds by multiplying the decimal part of the minutes by 60, e.g. latitude 38 degrees 46.07 minutes N would be latitude 38 degrees 46 minutes 4.2 seconds (0.07 x 60 = 4.2) N. Report GPS coordinates to the nearest 0.1 second.									
3. Year Drilled		2008	4. Drilling Permit Number (and date, if known)		NA				
5. Type of Well		Drilled	6. Total Depth (ft.)		43.08	Diameter (in.)		0.75	
7. Formation clear of obstruction		Yes							
8. Details of Plugging (bentonite, neat cement or other materials)									
Filled with	3/8" Bentonite Pellets		From (ft.)	43.08		to (ft.)	0.7		
Kind of plug	Topsoil		From (ft.)	0.7		to (ft.)	0		
Filled with			From (ft.)			to (ft.)			
Kind of plug			From (ft.)			to (ft.)			
Filled with			From (ft.)			to (ft.)			
Kind of plug			From (ft.)			to (ft.)			
9. CASING RECORD		Upper 2 feet of casing removed		Yes		10. Date well was sealed		Nov 17, 2010	
11. Licensed water well driller or other person approved by the Department performing well sealing									
Name		Brian Schmidt		Complete License Number		NA			
Address		255 Corporate Woods Pkwy.		City	Vernon Hills	State	Illinois	Zip Code	60061

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1. Ownership (Name of Controlling Party)

BFI Waste Systems of North America, LLC

2. Well Location:

Well Site Address

26W580 Schick Road

City

Hanover Park

Zip

60133

Lot #

Land I.D.#

ML-21

County

DuPage

Township

40N

Range

10E

Section

7

NW

Quarter of the

NW

Quarter of the

SE

Quarter

GPS: North
Degrees

Minutes

Seconds

West
Degrees

Minutes

Seconds

Report decimal minutes to minutes and seconds by multiplying the decimal part of the minutes by 60, e.g. latitude 38 degrees 46.07 minutes N would be latitude 38 degrees 46 minutes 4.2 seconds ($0.07 \times 60 = 4.2$) N. Report GPS coordinates to the nearest 0.1 second.

3. Year Drilled

2008

4. Drilling Permit Number (and date, if known)

NA

5. Type of Well

Drilled

6. Total Depth (ft.)

44.9

Diameter (in.)

0.75

7. Formation clear of obstruction

Yes

8. Details of Plugging (bentonite, neat cement or other materials)

Filled with

3/8" Bentonite Pellets

From (ft.)

44.9

to (ft.)

0.7

Kind of plug

Topsoil

From (ft.)

0.7

to (ft.)

0

Filled with

From (ft.)

to (ft.)

Kind of plug

From (ft.)

to (ft.)

Filled with

From (ft.)

to (ft.)

Kind of plug

From (ft.)

to (ft.)

9. CASING RECORD Upper 2 feet of casing removed

Yes

10. Date well was sealed

Nov 17, 2010

11. Licensed water well driller or other person approved by the Department performing well sealing

Name

Mark Magee

Complete License Number

NA

Address

255 Corporate Woods Pkwy.

City

Vernon Hills

State

Illinois

Zip Code

60061

This state agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act-0863. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center. IL 482-0631- Revised 5/09

Questions regarding the completion of this form should be directed to the local health department or the Illinois Department of Public Health 217-782-5830, TTY (for hearing impaired only) 800-547-0466.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF ENVIRONMENTAL HEALTH
525 W. JEFFERSON ST.
SPRINGFIELD, IL 62761

WATER WELL SEALING FORM

PDF FILLABLE/SAVABLE

RETURN ALL COPIES TO IDPH OR
LOCAL HEALTH DEPARTMENT

This form shall be submitted to this Department or the local health department not more than 30 days after a water well, boring or monitoring well is sealed. Such wells are to be sealed not more than 30 days after they are abandoned in accordance with the sealing requirements in the Illinois Water Well Construction Code. THE LOCAL HEALTH DEPARTMENT OR REGIONAL PUBLIC HEALTH DEPARTMENT MUST BE NOTIFIED AT LEAST 48 HOURS PRIOR TO SEALING.

1. Ownership (Name of Controlling Party) **BFI Waste Systems of North America, LLC**
2. Well Location: Well Site Address **26W580 Schick Road** City **Hanover Park** Zip **60133**
- Lot # Land I.D.# **ML-22** County **DuPage** Township **40N**
- Range **10E** Section **7** **SE** Quarter of the **SE** Quarter of the **NW** Quarter

GPS: North Degrees Minutes Seconds West Degrees Minutes Seconds

Report decimal minutes to minutes and seconds by multiplying the decimal part of the minutes by 60, e.g. latitude 38 degrees 46.07 minutes N would be latitude 38 degrees 46 minutes 4.2 seconds (0.07 x 60 = 4.2) N. Report GPS coordinates to the nearest 0.1 second.

3. Year Drilled **2009** 4. Drilling Permit Number (and date, if known) **NA**
5. Type of Well **Drilled** 6. Total Depth (ft.) **31.58** Diameter (in.) **0.75**
7. Formation clear of obstruction **Yes**
8. Detains of Plugging (bentonite, neat cement or other materials)

Filled with	3/8" Bentonite Pellets	From (ft.)	31.58	to (ft.)	0.7
Kind of plug	Topsoil	From (ft.)	0.7	to (ft.)	0
Filled with		From (ft.)		to (ft.)	
Kind of plug		From (ft.)		to (ft.)	
Filled with		From (ft.)		to (ft.)	
Kind of plug		From (ft.)		to (ft.)	

9. CASING RECORD Upper 2 feet of casing removed **Yes** 10. Date well was sealed **Nov 17, 2010**

11. Licensed water well driller or other person approved by the Department performing well sealing

Name **Brian Schmidt** Complete License Number **NA**

Address **255 Corporate Woods Pkwy.** City **Vernon Hills** State **Illinois** Zip Code **60061**

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1. Ownership (Name of Controlling Party)		BFI Waste Systems of North America, LLC													
2. Well Location:		Well Site Address	26W580 Schick Road	City	Hanover Park	Zip	60133								
Lot #		Land I.D.#	ML-25D	County	DuPage	Township	40N								
Range	10E	Section	7	SE	Quarter of the	SE	Quarter of the	NW	Quarter						
GPS: North			Minutes		Seconds		West		Minutes		Seconds				
Report decimal minutes to minutes and seconds by multiplying the decimal part of the minutes by 60, e.g. latitude 38 degrees 46.07 minutes N would be latitude 38 degrees 46 minutes 4.2 seconds (0.07 x 60 = 4.2) N. Report GPS coordinates to the nearest 0.1 second.															
3. Year Drilled		2009		4. Drilling Permit Number (and date, if known)		NA									
5. Type of Well		Drilled		6. Total Depth (ft.)		70.3		Diameter (in.)		0.75					
7. Formation clear of obstruction		Yes													
8. Details of Plugging (bentonite, neat cement or other materials)															
Filled with		3/8" Bentonite Pellets		From (ft.)		70.3		to (ft.)		0.7					
Kind of plug		Topsoil		From (ft.)		0.7		to (ft.)		0					
Filled with				From (ft.)				to (ft.)							
Kind of plug				From (ft.)				to (ft.)							
Filled with				From (ft.)				to (ft.)							
Kind of plug				From (ft.)				to (ft.)							
9. CASING RECORD		Upper 2 feet of casing removed		Yes		10. Date well was sealed		Nov 17, 2010							
11. Licensed water well driller or other person approved by the Department performing well sealing															
Name		Mark Magee		Complete License Number		NA									
Address		255 Corporate Woods Pkwy.		City		Vernon Hills		State		Illinois		Zip Code		60061	

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1. Ownership (Name of Controlling Party)		BFI Waste Systems of North America, LLC													
2. Well Location:		Well Site Address	26W580 Schick Road	City	Hanover Park	Zip	60133								
Lot #		Land I.D.#	ML-25I	County	DuPage	Township	40N								
Range	10E	Section	7	SE	Quarter of the	SE	Quarter of the	NW	Quarter						
GPS: North			Minutes		Seconds		West		Minutes		Seconds				
Report decimal minutes to minutes and seconds by multiplying the decimal part of the minutes by 60, e.g. latitude 38 degrees 46.07 minutes N would be latitude 38 degrees 46 minutes 4.2 seconds (0.07 x 60 = 4.2) N. Report GPS coordinates to the nearest 0.1 second.															
3. Year Drilled		2009		4. Drilling Permit Number (and date, if known)		NA									
5. Type of Well		Drilled		6. Total Depth (ft.)		45		Diameter (in.)		0.75					
7. Formation clear of obstruction		Yes													
8. Detains of Plugging (bentonite, neat cement or other materials)															
Filled with		3/8" Bentonite Pellets		From (ft.)		45		to (ft.)		0.7					
Kind of plug		Topsoil		From (ft.)		0.7		to (ft.)		0					
Filled with				From (ft.)				to (ft.)							
Kind of plug				From (ft.)				to (ft.)							
Filled with				From (ft.)				to (ft.)							
Kind of plug				From (ft.)				to (ft.)							
9. CASING RECORD		Upper 2 feet of casing removed		Yes		10. Date well was sealed		Nov 17, 2010							
11. Licensed water well driller or other person approved by the Department performing well sealing															
Name		Mark Magee		Complete License Number		NA									
Address		255 Corporate Woods Pkwy.		City		Vernon Hills		State		Illinois		Zip Code		60061	

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1. Ownership (Name of Controlling Party)		BFI Waste Systems of North America, LLC											
2. Well Location:		Well Site Address	26W580 Schick Road	City	Hanover Park	Zip	60133						
Lot #		Land I.D.#	ML-25S	County	DuPage	Township	40N						
Range	10E	Section	7	SE	Quarter of the	SE	Quarter of the	NW	Quarter				
GPS: North Degrees			Minutes		Seconds		West Degrees		Minutes		Seconds		
Report decimal minutes to minutes and seconds by multiplying the decimal part of the minutes by 60, e.g. latitude 38 degrees 46.07 minutes N would be latitude 38 degrees 46 minutes 4.2 seconds (0.07 x 60 = 4.2) N. Report GPS coordinates to the nearest 0.1 second.													
3. Year Drilled		2009		4. Drilling Permit Number (and date, if known)		NA							
5. Type of Well		Drilled		6. Total Depth (ft.)		26.6		Diameter (in.)		0.75			
7. Formation clear of obstruction		Yes											
8. Detains of Plugging (bentonite, neat cement or other materials)													
Filled with		3/8" Bentonite Pellets		From (ft.)		26.6		to (ft.)		0.7			
Kind of plug		Topsoil		From (ft.)		0.7		to (ft.)		0			
Filled with				From (ft.)				to (ft.)					
Kind of plug				From (ft.)				to (ft.)					
Filled with				From (ft.)				to (ft.)					
Kind of plug				From (ft.)				to (ft.)					
9. CASING RECORD Upper 2 feet of casing removed				Yes		10. Date well was sealed				Nov 17, 2010			
11. Licensed water well driller or other person approved by the Department performing well sealing													
Name		Mark Magee				Complete License Number		NA					
Address		255 Corporate Woods Pkwy.		City		Vernon Hills		State		Illinois		Zip Code	60061

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1. Ownership (Name of Controlling Party)		BFI Waste Systems of North America, LLC	
2. Well Location: Well Site Address		26W580 Schick Road	City Hanover Park Zip 60133
Lot #	Land I.D.#	ML-26l	County DuPage Township 40N
Range 10E	Section 7	NE	Quarter of the SE Quarter of the NW Quarter
GPS: North Degrees Minutes Seconds West Degrees Minutes Seconds			
Report decimal minutes to minutes and seconds by multiplying the decimal part of the minutes by 60, e.g. latitude 38 degrees 46.07 minutes N would be latitude 38 degrees 46 minutes 4.2 seconds (0.07 x 60 = 4.2) N. Report GPS coordinates to the nearest 0.1 second.			
3. Year Drilled	2009	4. Drilling Permit Number (and date, if known)	NA
5. Type of Well	Drilled	6. Total Depth (ft.)	29.33 Diameter (in.) 0.75
7. Formation clear of obstruction	Yes		
8. Details of Plugging (bentonite, neat cement or other materials)			
Filled with	3/8" Bentonite Pellets	From (ft.)	29.33 to (ft.) 0.7
Kind of plug	Topsoil	From (ft.)	0.7 to (ft.) 0
Filled with		From (ft.)	to (ft.)
Kind of plug		From (ft.)	to (ft.)
Filled with		From (ft.)	to (ft.)
Kind of plug		From (ft.)	to (ft.)
9. CASING RECORD Upper 2 feet of casing removed		Yes	10. Date well was sealed Nov 17, 2010
11. Licensed water well driller or other person approved by the Department performing well sealing			
Name	Brian Schmidt	Complete License Number	NA
Address	255 Corporate Woods Pkwy.	City Vernon Hills State Illinois Zip Code	60061

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1. Ownership (Name of Controlling Party)

BFI Waste Systems of North America, LLC

2. Well Location: Well Site Address 26W580 Schick Road City Hanover Park Zip 60133

Lot # Land I.D.# ML-27 County DuPage Township 40N

Range 10E Section 7 SE Quarter of the SE Quarter of the NW Quarter

GPS: North Degrees Minutes Seconds West Degrees Minutes Seconds

Report decimal minutes to minutes and seconds by multiplying the decimal part of the minutes by 60, e.g. latitude 38 degrees 46.07 minutes N would be latitude 38 degrees 46 minutes 4.2 seconds (0.07 x 60 = 4.2) N. Report GPS coordinates to the nearest 0.1 second.

3. Year Drilled 2009

4. Drilling Permit Number (and date, if known) NA

5. Type of Well Drilled

6. Total Depth (ft.) 16.7 Diameter (in.) 0.75

7. Formation clear of obstruction Yes

8. Details of Plugging (bentonite, neat cement or other materials)

Filled with 3/8" Bentonite Pellets From (ft.) 16.7 to (ft.) 0.7

Kind of plug Topsoil From (ft.) 0.7 to (ft.) 0

Filled with From (ft.) to (ft.)

Kind of plug From (ft.) to (ft.)

Filled with From (ft.) to (ft.)

Kind of plug From (ft.) to (ft.)

9. CASING RECORD Upper 2 feet of casing removed Yes

10. Date well was sealed Nov 17, 2010

11. Licensed water well driller or other person approved by the Department performing well sealing

Name Brian Schmidt

Complete License Number NA

Address 255 Corporate Woods Pkwy. City Vernon Hills State Illinois Zip Code 60061

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1. Ownership (Name of Controlling Party)		BFI Waste Systems of North America, LLC	
2. Well Location: Well Site Address		26W580 Schick Road	City Hanover Park Zip 60133
Lot #	Land I.D.#	ML-28	County DuPage Township 40N
Range 10E	Section 7	SE	Quarter of the SE Quarter of the NW Quarter
GPS: North Degrees Minutes Seconds West Degrees Minutes Seconds			
Report decimal minutes to minutes and seconds by multiplying the decimal part of the minutes by 60, e.g. latitude 38 degrees 46.07 minutes N would be latitude 38 degrees 46 minutes 4.2 seconds (0.07 x 60 = 4.2) N. Report GPS coordinates to the nearest 0.1 second.			
3. Year Drilled	2009	4. Drilling Permit Number (and date, if known)	NA
5. Type of Well	Drilled	6. Total Depth (ft.)	28.86
		Diameter (in.)	0.75
7. Formation clear of obstruction	Yes		
8. Details of Plugging (bentonite, neat cement or other materials)			
Filled with	3/8" Bentonite Pellets	From (ft.)	28.86 to (ft.) 0.7
Kind of plug	Topsoil	From (ft.)	0.7 to (ft.) 0
Filled with		From (ft.)	to (ft.)
Kind of plug		From (ft.)	to (ft.)
Filled with		From (ft.)	to (ft.)
Kind of plug		From (ft.)	to (ft.)
9. CASING RECORD Upper 2 feet of casing removed	Yes	10. Date well was sealed	Nov 17, 2010
11. Licensed water well driller or other person approved by the Department performing well sealing			
Name	Brian Schmidt	Complete License Number	NA
Address	255 Corporate Woods Pkwy.	City	Vernon Hills
		State	Illinois
		Zip Code	60061

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1. Ownership (Name of Controlling Party)

BFI Waste Systems of North America, LLC

2. Well Location: Well Site Address 26W580 Schick Road City Hanover Park Zip 60133

Lot # Land I.D.# ML-30 County DuPage Township 40N

Range 10E Section 7 SE Quarter of the SE Quarter of the NW Quarter

GPS: North Degrees Minutes Seconds West Degrees Minutes Seconds

Report decimal minutes to minutes and seconds by multiplying the decimal part of the minutes by 60, e.g. latitude 38 degrees 46.07 minutes N would be latitude 38 degrees 46 minutes 4.2 seconds ($0.07 \times 60 = 4.2$) N. Report GPS coordinates to the nearest 0.1 second.

3. Year Drilled 2009

4. Drilling Permit Number (and date, if known) NA

5. Type of Well Drilled

6. Total Depth (ft.) 28.5

Diameter (in.) 0.75

7. Formation clear of obstruction Yes

8. Details of Plugging (bentonite, neat cement or other materials)

Filled with 3/8" Bentonite Pellets From (ft.) 28.5 to (ft.) 0.7

Kind of plug Topsoil From (ft.) 0.7 to (ft.) 0

Filled with From (ft.) to (ft.)

Kind of plug From (ft.) to (ft.)

Filled with From (ft.) to (ft.)

Kind of plug From (ft.) to (ft.)

9. CASING RECORD Upper 2 feet of casing removed Yes

10. Date well was sealed Nov 17, 2010

11. Licensed water well driller or other person approved by the Department performing well sealing

Name Brian Schmidt

Complete License Number NA

Address 255 Corporate Woods Pkwy. City Vernon Hills State Illinois Zip Code 60061

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1. Ownership (Name of Controlling Party)		BFI Waste Systems of North America, LLC	
2. Well Location: Well Site Address		26W580 Schick Road	City Hanover Park Zip 60133
Lot #	Land I.D.#	ML-31	County DuPage Township 40N
Range 10E	Section 7	SE	Quarter of the SE Quarter of the NW Quarter
GPS: North Degrees Minutes Seconds West Degrees Minutes Seconds			
Report decimal minutes to minutes and seconds by multiplying the decimal part of the minutes by 60, e.g. latitude 38 degrees 46.07 minutes N would be latitude 38 degrees 46 minutes 4.2 seconds (0.07 x 60 = 4.2) N. Report GPS coordinates to the nearest 0.1 second.			
3. Year Drilled	2009	4. Drilling Permit Number (and date, if known)	NA
5. Type of Well	Drilled	6. Total Depth (ft.)	22.33 Diameter (in.) 0.75
7. Formation clear of obstruction	Yes		
8. Details of Plugging (bentonite, neat cement or other materials)			
Filled with	3/8" Bentonite Pellets	From (ft.)	22.33 to (ft.) 0.7
Kind of plug	Topsoil	From (ft.)	0.7 to (ft.) 0
Filled with		From (ft.)	to (ft.)
Kind of plug		From (ft.)	to (ft.)
Filled with		From (ft.)	to (ft.)
Kind of plug		From (ft.)	to (ft.)
9. CASING RECORD Upper 2 feet of casing removed	Yes	10. Date well was sealed	Nov 17, 2010
11. Licensed water well driller or other person approved by the Department performing well sealing			
Name	Brian Schmidt	Complete License Number	NA
Address	255 Corporate Woods Pkwy.	City Vernon Hills State Illinois Zip Code	60061

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1. Ownership (Name of Controlling Party)		BFI Waste Systems of North America, LLC	
2. Well Location: Well Site Address		26W580 Schick Road	City Hanover Park Zip 60133
Lot #	Land I.D.#	ML-33	County DuPage Township 40N
Range 10E	Section 7	SE	Quarter of the SE Quarter of the NW Quarter
GPS: North Degrees Minutes Seconds West Degrees Minutes Seconds			
Report decimal minutes to minutes and seconds by multiplying the decimal part of the minutes by 60, e.g. latitude 38 degrees 46.07 minutes N would be latitude 38 degrees 46 minutes 4.2 seconds (0.07 x 60 = 4.2) N. Report GPS coordinates to the nearest 0.1 second.			
3. Year Drilled	2009	4. Drilling Permit Number (and date, if known)	NA
5. Type of Well	Drilled	6. Total Depth (ft.)	28.15 Diameter (in.) 0.75
7. Formation clear of obstruction	Yes		
8. Details of Plugging (bentonite, neat cement or other materials)			
Filled with	3/8" Bentonite Pellets	From (ft.)	28.15 to (ft.) 0.7
Kind of plug	Topsoil	From (ft.)	0.7 to (ft.) 0
Filled with		From (ft.)	
Kind of plug		From (ft.)	
Filled with		From (ft.)	
Kind of plug		From (ft.)	
9. CASING RECORD Upper 2 feet of casing removed		Yes	10. Date well was sealed Nov 17, 2010
11. Licensed water well driller or other person approved by the Department performing well sealing			
Name	Nick Pins	Complete License Number	NA
Address	255 Corporate Woods Pkwy.	City Vernon Hills State Illinois Zip Code	60061

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1. Ownership (Name of Controlling Party)		BFI Waste Systems of North America, LLC													
2. Well Location: Well Site Address		26W580 Schick Road	City	Hanover Park	Zip	60133									
Lot #	Land I.D.#	ML-34	County	DuPage	Township	40N									
Range	10E	Section	7	SE	Quarter of the	SE	Quarter of the	NW	Quarter						
GPS: North Degrees			Minutes		Seconds		West Degrees		Minutes		Seconds				
Report decimal minutes to minutes and seconds by multiplying the decimal part of the minutes by 60, e.g. latitude 38 degrees 46.07 minutes N would be latitude 38 degrees 46 minutes 4.2 seconds (0.07 x 60 = 4.2) N. Report GPS coordinates to the nearest 0.1 second.															
3. Year Drilled		2009	4. Drilling Permit Number (and date, if known)		NA										
5. Type of Well		Drilled	6. Total Depth (ft.)		27.3	Diameter (in.)	0.75								
7. Formation clear of obstruction		Yes													
8. Details of Plugging (bentonite, neat cement or other materials)															
Filled with	3/8" Bentonite Pellets	From (ft.)	27.3	to (ft.)	0.7										
Kind of plug	Topsoil	From (ft.)	0.7	to (ft.)	0										
Filled with		From (ft.)		to (ft.)											
Kind of plug		From (ft.)		to (ft.)											
Filled with		From (ft.)		to (ft.)											
Kind of plug		From (ft.)		to (ft.)											
9. CASING RECORD Upper 2 feet of casing removed		Yes	10. Date well was sealed		Nov 17, 2010										
11. Licensed water well driller or other person approved by the Department performing well sealing															
Name		Nick Pins		Complete License Number		NA									
Address		255 Corporate Woods Pkwy.		City		Vernon Hills		State		Illinois		Zip Code		60061	

This state agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act-0863. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center. IL 482-0631- Revised 5/09

Questions regarding the completion of this form should be directed to the local health department or the Illinois Department of Public Health 217-782-5830, TTY (for hearing impaired only) 800-547-0466.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF ENVIRONMENTAL HEALTH
525 W. JEFFERSON ST.
SPRINGFIELD, IL 62761

WATER WELL SEALING FORM

PDF FILLABLE/SAVABLE

RETURN ALL COPIES TO IDPH OR
LOCAL HEALTH DEPARTMENT

This form shall be submitted to this Department or the local health department not more than 30 days after a water well, boring or monitoring well is sealed. Such wells are to be sealed not more than 30 days after they are abandoned in accordance with the sealing requirements in the Illinois Water Well Construction Code. THE LOCAL HEALTH DEPARTMENT OR REGIONAL PUBLIC HEALTH DEPARTMENT MUST BE NOTIFIED AT LEAST 48 HOURS PRIOR TO SEALING.

1. Ownership (Name of Controlling Party)		BFI Waste Systems of North America, LLC					
2. Well Location:		Well Site Address	26W580 Schick Road	City	Hanover Park	Zip	60133
Lot #		Land I.D.#	ML-36	County	DuPage	Township	40N
Range	10E	Section	7	SE	Quarter of the	SE	Quarter of the NW Quarter
GPS: North		Degrees		Minutes		Seconds	
West		Degrees		Minutes		Seconds	
Report decimal minutes to minutes and seconds by multiplying the decimal part of the minutes by 60, e.g. latitude 38 degrees 46.07 minutes N would be latitude 38 degrees 46 minutes 4.2 seconds (0.07 x 60 = 4.2) N. Report GPS coordinates to the nearest 0.1 second.							
3. Year Drilled		2009	4. Drilling Permit Number (and date, if known)		NA		
5. Type of Well		Drilled	6. Total Depth (ft.)		23.39	Diameter (in.)	0.75
7. Formation clear of obstruction		Yes					
8. Detains of Plugging (bentonite, neat cement or other materials)							
Filled with	3/8" Bentonite Pellets		From (ft.)	23.39		to (ft.)	0.7
Kind of plug	Topsoil		From (ft.)	0.7		to (ft.)	0
Filled with			From (ft.)			to (ft.)	
Kind of plug			From (ft.)			to (ft.)	
Filled with			From (ft.)			to (ft.)	
Kind of plug			From (ft.)			to (ft.)	
9. CASING RECORD		Upper 2 feet of casing removed		Yes	10. Date well was sealed		
					Nov 17, 2010		
11. Licensed water well driller or other person approved by the Department performing well sealing							
Name		Nick Pins		Complete License Number		NA	
Address		255 Corporate Woods Pkwy.		City	Vernon Hills	State	Illinois
						Zip Code	60061

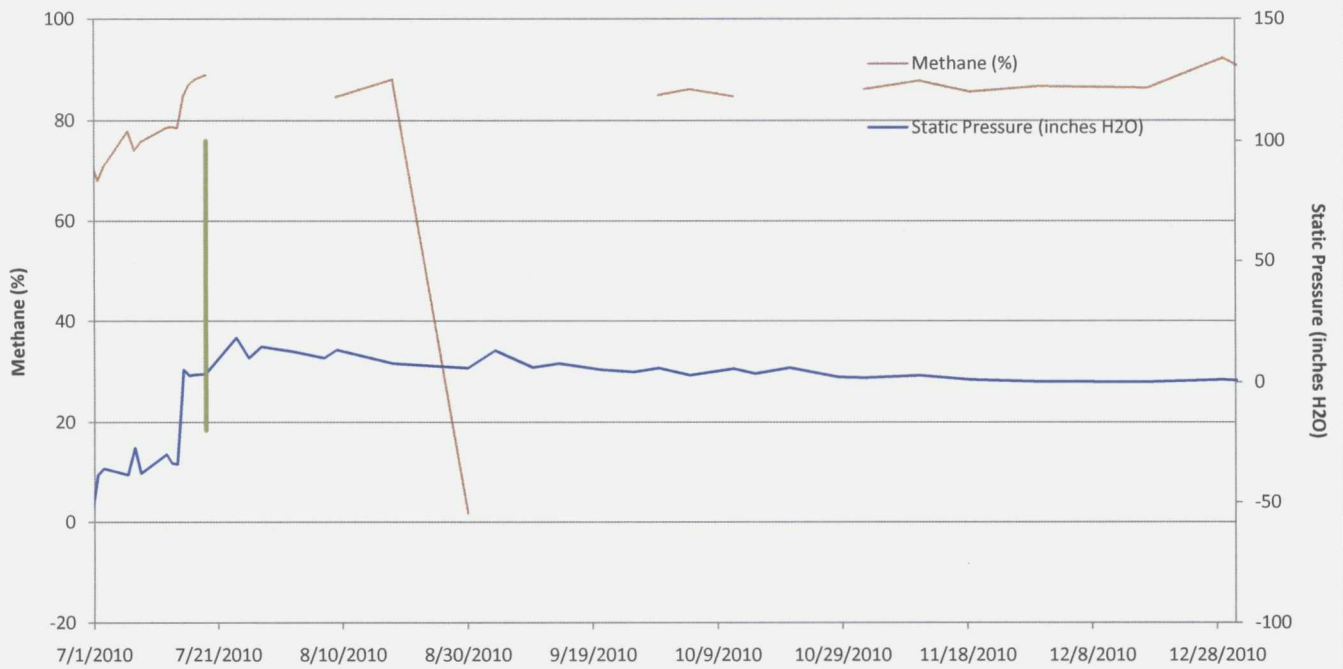
This state agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act-0863. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center. IL 482-0631- Revised 5/09

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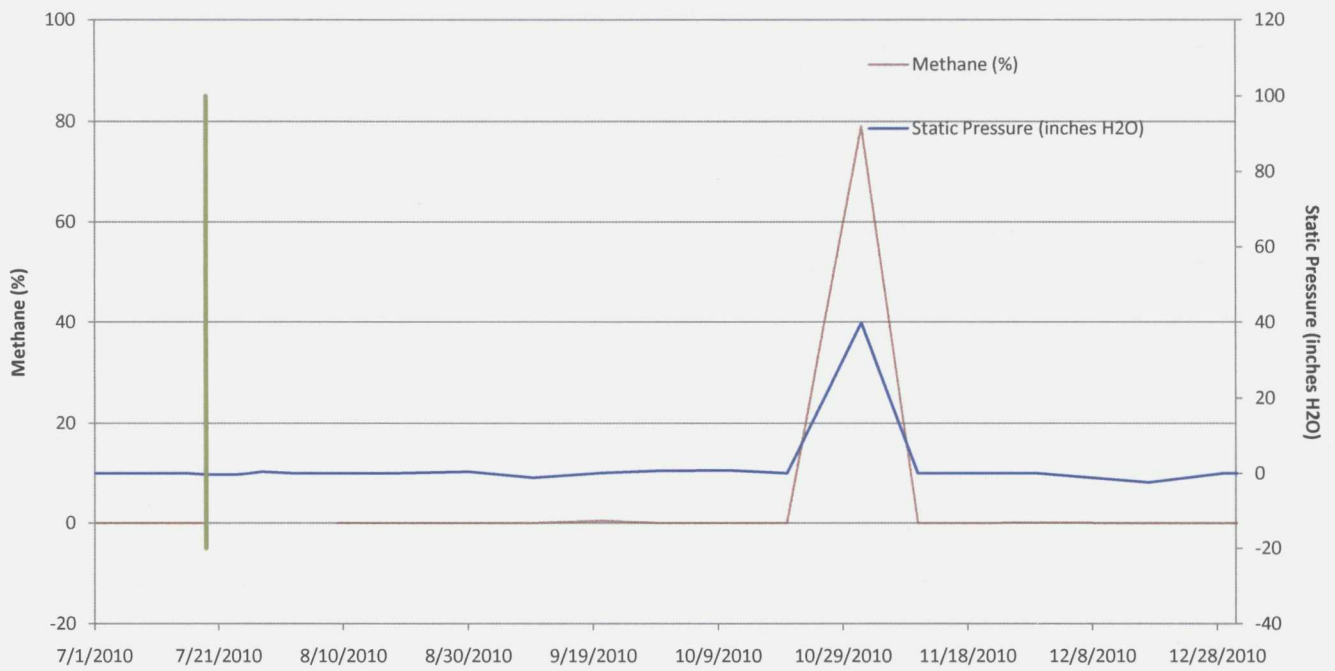
Appendix B

Methane and Pressure Graphs

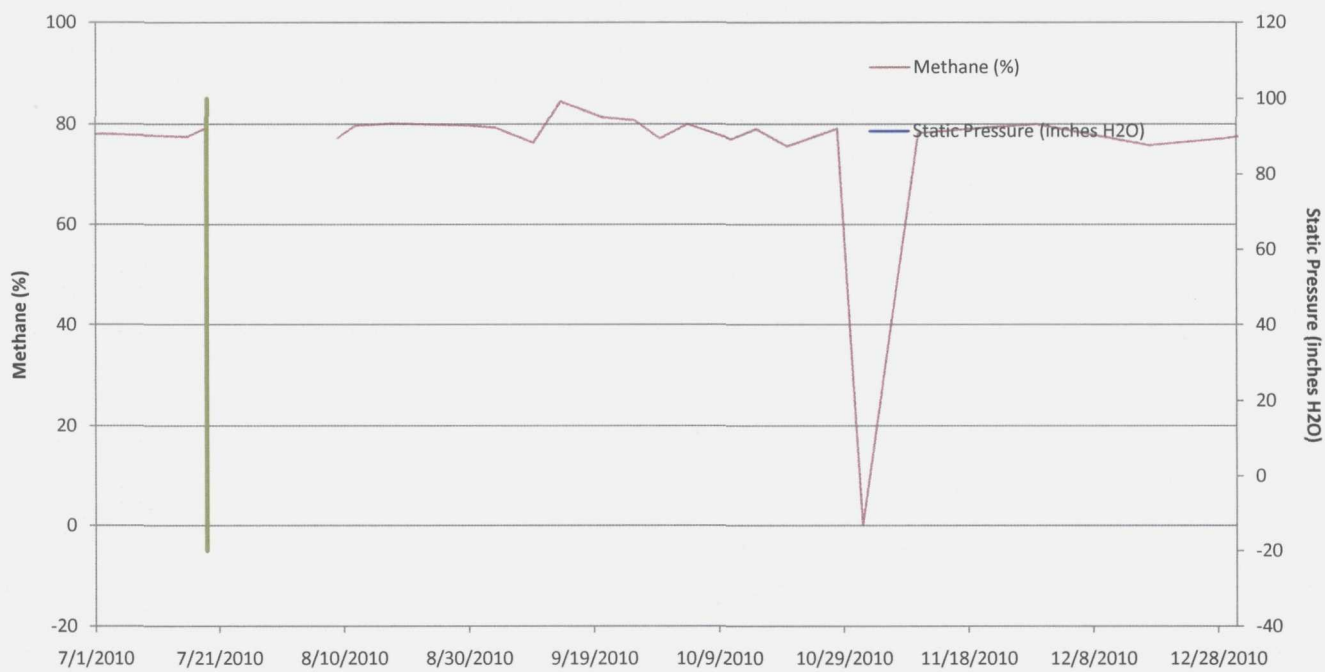
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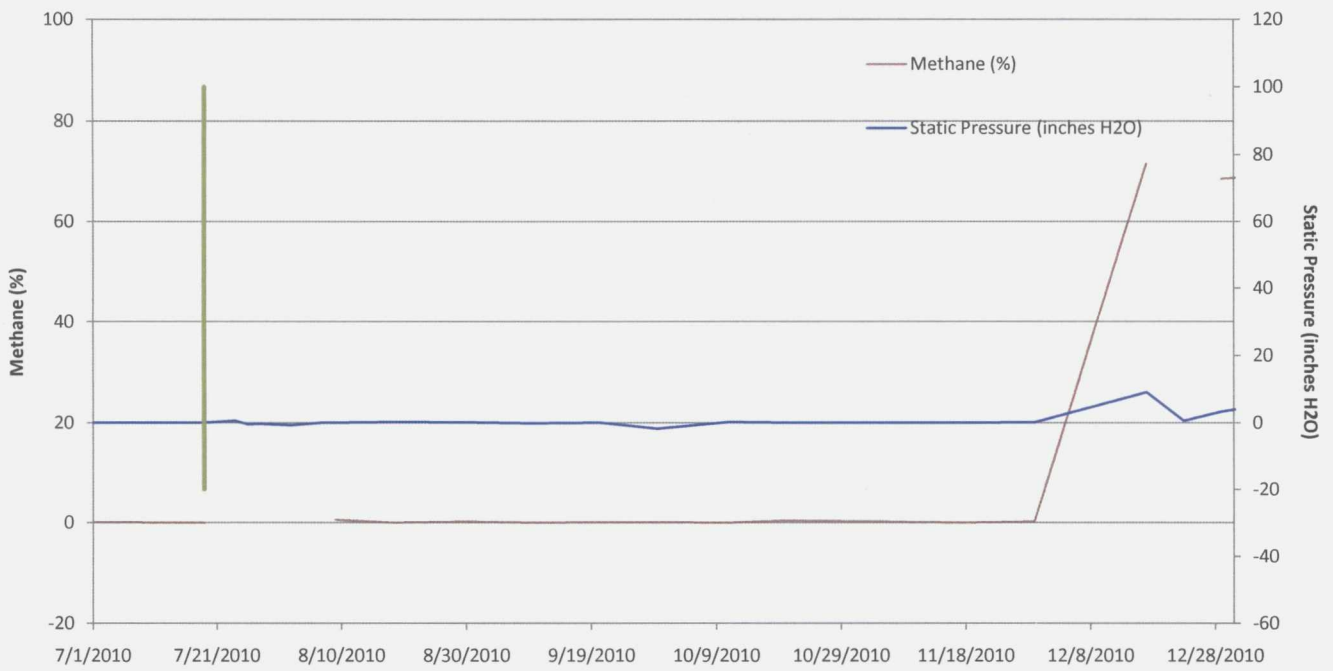
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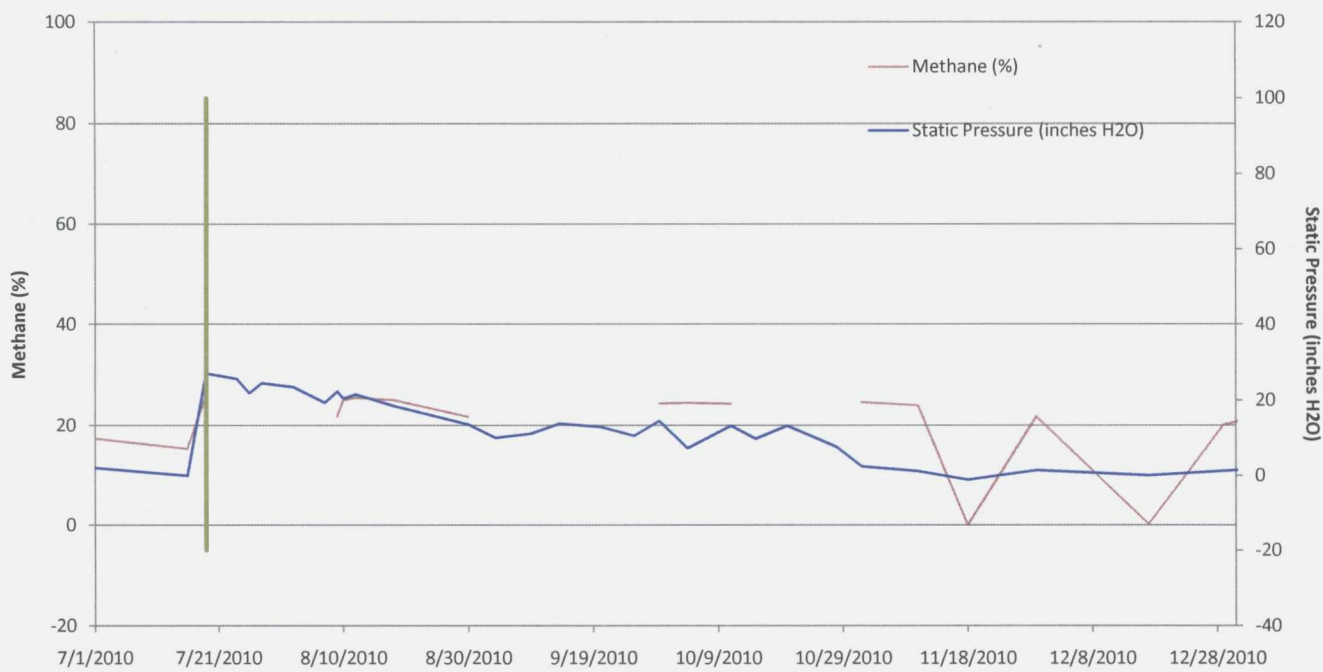
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ML-10I



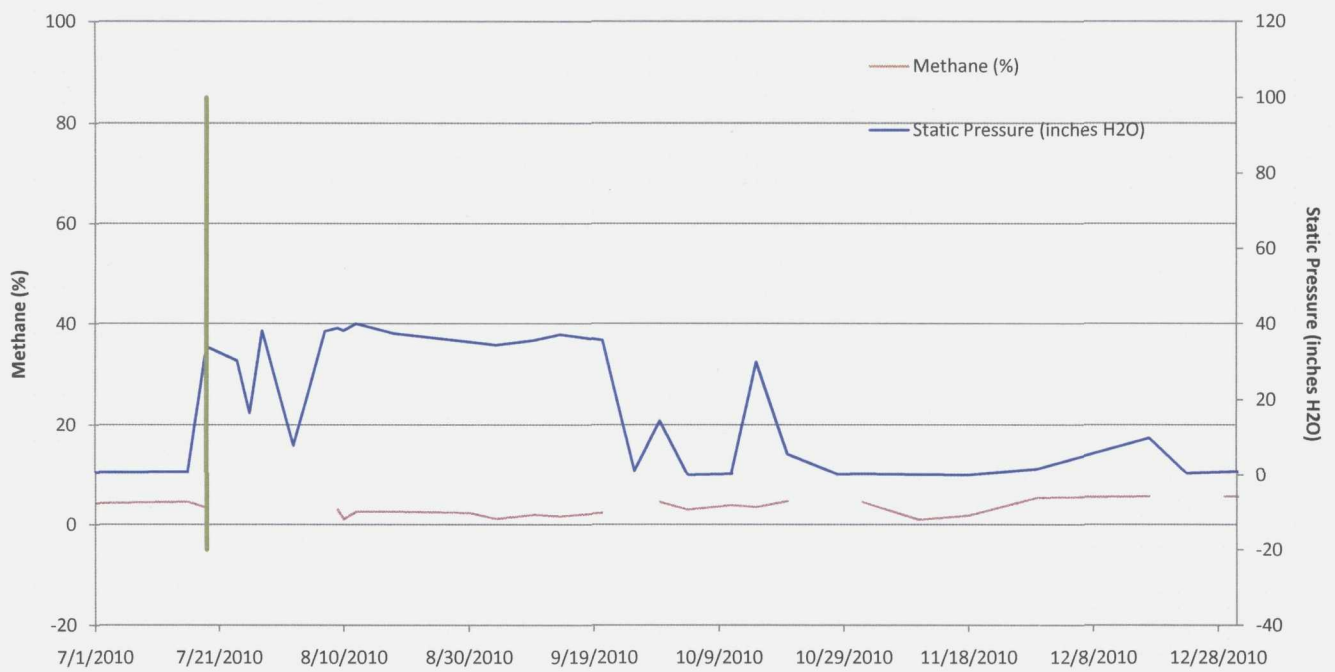
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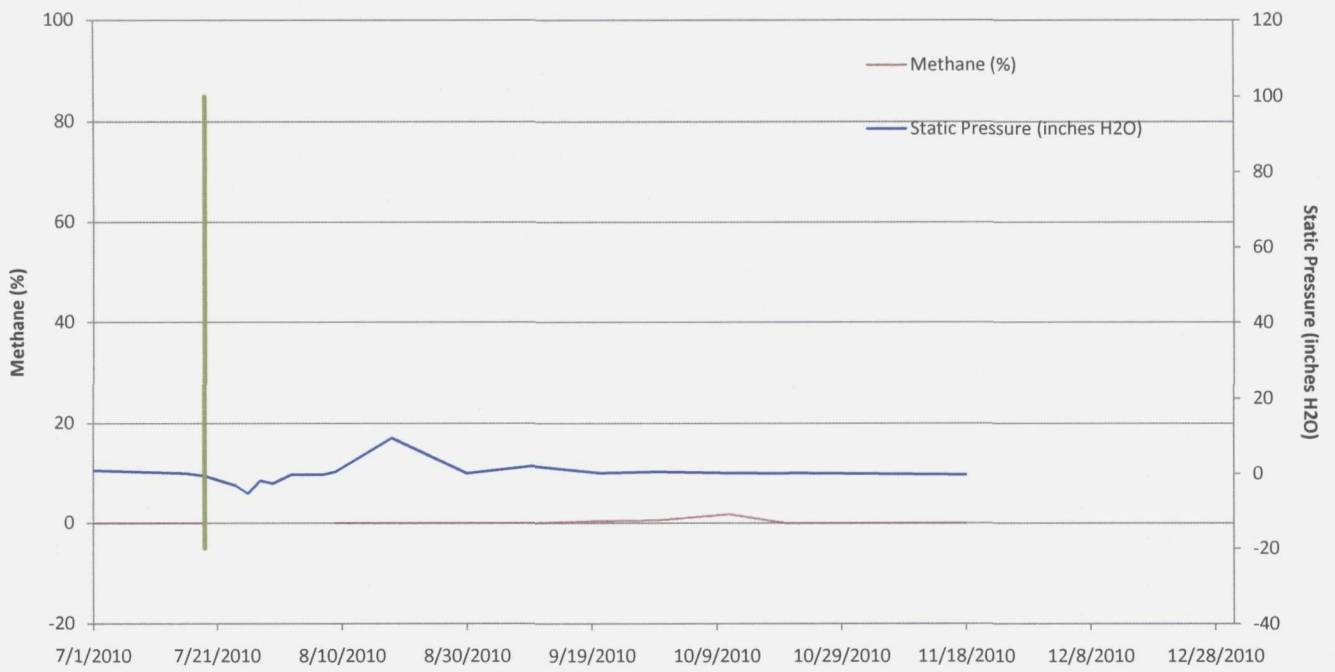
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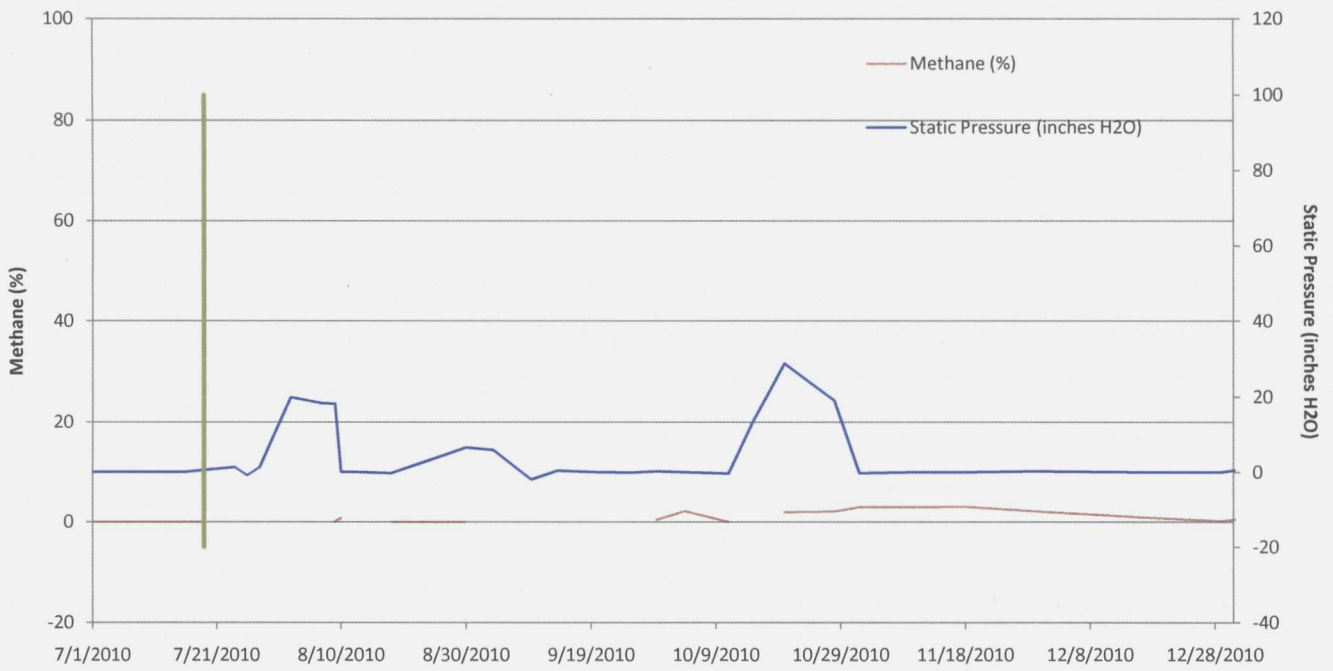
ML-20



ML-26S



ML-29



MW-204ES



Appendix C
Probe and Well Monitoring Data (CD)